

Enterprise Test Data Management Services (EntTDMS)

Global Alliances

Formal processes for data management services and reliable test data management tools play a pivotal role in protecting sensitive data, enabling efficient data storage, and allowing secure data retrieval. Solutions towards efficient test environments ensure compliance with standards, service quality agreements, and regulatory requirements by masking sensitive data that helps minimize instances of data breach. Such environments ensure better storage and improved quality of test data by addressing data quality issues, efficiently handling large volumes of data, and helping improve test cycle times – all critical to lower testing expenditure and infrastructure costs.

We, at Tata Consultancy Services (TCS), offer our Enterprise Test Data Management Services (EntTDMS) offering which is built in collaboration with Informatica, the key player in the data integration space.

Overview

Software testing ensures product and process quality. Enterprises seek to ensure enterprise-wide masking of test data, which is vital to address compliance issues in a pre-defined and standardized way and ensure right sized data to optimize test effort and storage capacity of development and test environments. Further, formal processes for data management services and reliable test data management tools play a crucial role in protecting sensitive data and managing large volumes of data as they ensure regulatory compliance, efficient data storage and retrieval, faster networks, and reduced costs.

Our EntTDMS offering leverages our partnership with Informatica. The solution saves infrastructure costs by reducing the storage footprints of test environments and improves test cycle times for better quality of test data. In addition, EntTDMS improves the efficiency of test environments by saving expenditure in test data and environment management. Organizations also gain from compliance with regulatory requirements and guidelines. Our solution, thus, reduces compliance costs and the risk of legal exposure, while bringing in data privacy. The diagnostic service ability of our solution delivers upfront Return on Investment (ROI) for enterprises.

EntTDMS works with leading industry tools and best practices to set up an end to end enterprise-wide test data management which includes data assessment and diagnostics, data masking, data subset, and archiving strategy.

- **Data Consulting:** Includes data quality assessment to assess right size qualified data for development and test requirement. Similarly Data growth analysis to assess the growth of data leading to informed decision about investment in infrastructure and archiving strategies
- **Data masking.** Includes data masking for heterogeneous applications in a scalable context. This feature provides comprehensive data support for data masking activities. This feature also involves data privacy and compliance with data masking accelerators, and implements data privacy policies.
- **Data subset.** Includes central management of databases, enterprise application subsets from one scalable system, and creation of data subsets across heterogeneous applications and databases. The feature also tracks provisioning of data through comprehensive audit logs and

reports. A comprehensive set of application accelerators further improve productivity and test data quality. In addition, broad connectivity and custom application support readily customize database subset policies according to individual business requirements.

- **Data archiving.** Supports the archiving of inactive and unstructured data to optimize performance. This feature ensures seamless data access, data backup, built-in data compliance, and pointers for data growth analysis.

Benefits

Our solution brings you benefits of:

- Risk mitigation through reduced data exposure, improved data privacy by utilizing data masking techniques, and protection of sensitive data. You also gain from enforcement of enterprise-wide policies for compliance across non-production environments;
- Maintenance of data privacy compliance, which helps your organization stay compliant with HIPAA, GLBA, and other privacy regulations;
- Masking Policy Standardization of multiple test environments across different industrial domains for easy externalization across the enterprise;
- Improved compliance management with regulatory requirements and guidelines, such as BASEL, SOX, SEPA, PCI, and Solvency;
- Reduced test cycle time, which is achieved through a shorter test data setup duration using cloned data subsets. You also gain from better quality of test data, leading to increased test efficiencies and effectiveness;
- Optimize your application development, application testing, and training systems resulting in better savings on the Total Cost of Ownership (TCO) for storage.

Why TCS

At TCS, we offer a solution that enables possibilities of a quick and reliable ROI. The solution provides the ability to mask data and retain referential integrity as well as maintain data quality.

Service to manage and improve Test Data and Environments

Diagnostic Service: To assess Customer's AS-IS state in managing test data

Compliance Service: Provide recommendations on statutory and regulatory compliance related to test data

Implementation Service: To implement robust, efficient processes and tools to create and manage test data

Combines the best-of-breed TCS' matured processes, best practices, governance and methodology with Informatica's innovative products for data profiling, sub-setting and masking

Resulting in ►

Improved Time-To-Market

Certainty in TD Governance
Metrics & reporting

Regulatory & Statutory Compliance

Reduced Operational Cost
Metrics & reporting

An overview of the TCS-Informatica EntTDMS offering

The EntTDMS services may be availed in a standalone version or embedded with our Test Centre of Excellence (TCoE) services. In the TCoE engagement model, we enable you to create a test organization that provides complete testing services. The services include test consulting, functional testing, non-functional testing, test support services, and test management. We also add value with:

- **The TCS-Informatica partnership.** TCS and Informatica have a decade-long partnership. TCS-INFA has grown to be a strategic global alliance partner, management consulting vendor, and a preferred Informatica partner. As a preferred INFA partner, we not only have significant exposure in the beta version of the product, but also offer continual product improvement recommendations. Our mature partnership ensures continuous support from INFA throughout the sales and delivery lifecycle, ensures delivery excellence and world-class implementation for the EntTDMS offering.
- **Our expertise.** We leverage our domain expertise in testing methodologies, in-house tools, best practices, data growth, and quality management. We are on-course to add new features to the EntTDMS offering by utilizing our expertise in data validation, data adaptation, and synthetic test data creation.
- **The Assurance Services Unit (ASU) Test Automation Lab (TDM).** This promotes continuous improvement and optimizes the overall test automation effort with best-in-class testing practices including tools, in-house frameworks, automation strategy, and ready-to-deploy solution accelerators for test data. The Test Automation Lab (TDM) adds the following features to the EntTDMS offering:
 - Data adaptors that provide linkages between test data that were subset and masked to the test cases stored in popular commercial and open source test management tools such as HP QC, IBM RQM, TestLink, and RTH;
 - Data validators to ensure correctness and completeness of the subset and masked data;

- Development of tools for synthetic test data creation by generating test data based on test scenarios, specifications, and boundary conditions. This enhances the test coverage with all possible combinations of test conditions.

Contact

To know more about TCS Enterprise Test Data Management Services (EntTDMS), contact: **Global.Alliances@tcs.com**

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at **www.tcs.com**

**IT Services
Business Solutions
Outsourcing**